

From glowbugs@theporch.com Tue Oct 29 10:19:48 1996
Return-Path: <glowbugs@theporch.com>
Received: from uro (localhost.theporch.com [127.0.0.1]) by uro.theporch.com
(8.8.2/AUX-3.1.1) with SMTP id KAA23655; Tue, 29 Oct 1996 10:13:35 -0600 (CST)
Date: Tue, 29 Oct 1996 10:13:35 -0600 (CST)
Message-Id: <199610291613.KAA23655@uro.theporch.com>
Errors-To: conard@tntech.campus.mci.net
Reply-To: glowbugs@theporch.com
Originator: glowbugs@theporch.com
Sender: glowbugs@theporch.com
Precedence: bulk
From: glowbugs@theporch.com
To: Multiple recipients of list <glowbugs@theporch.com>
Subject: GLOWBUGS digest 335
X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas
X-Comment: Please send list server requests to listproc@theporch.com
Status: 0

GLOWBUGS Digest 335

Topics covered in this issue include:

- 1) Re: TUBE BANK(s) Idea!
by larrys@fmis02.nsc.com (Larry Szendrei, NSME CMOS7 BEOL integration)
- 2) Re: Homebrew UX-201A regen grid leak value?
by HaPpYgUy <jfw121@mail.usask.ca>
- 3) Night Deposit at the All-Night Tube Bank?
by jefffd@coriolis.com (Jeff Duntemann)
- 4) Re: Lurker Needs Knight T-60 Ckt.
by Roy Morgan <morgan@speckle.ncsl.nist.gov>
- 5) Re: emergency output transformer
by Roy Morgan <morgan@speckle.ncsl.nist.gov>
- 6) Looking for hole punches
by Guy Dragoo <gdrag@proedge.com>
- 7)
by Roy Morgan <morgan@speckle.ncsl.nist.gov>
- 8) Chassis concepts
by jefffd@coriolis.com (Jeff Duntemann)
- 9) Re: Looking for hole punches
by jefffd@coriolis.com (Jeff Duntemann)
- 10) Tube Bank
by davemed@ix.netcom.com
- 11) Re: Tube Bank
by "Robert M. Bratcher Jr." <bratcher@worldnet.att.net>
- 12) Re: Tube Bank
by Gordon Gekko <gekko@nwlink.com>
- 13) Re: TUBE BANK(s) Idea!
by k7yha@juno.com (Richard H. Arland)

- 14) Tube bank
by haynes@cats.ucsc.edu (Jim Haynes)
- 15) Re: Lurker Needs Knight T-60 Ckt.
by "Brian Carling" <bry@mnsinc.com>
- 16) Re: Tube bank
by "Brian Carling" <bry@mnsinc.com>
- 17) Re: Tube Bank
by "Brian Carling" <bry@mnsinc.com>
- 18) Re: Fr. Roy
by k7yha@juno.com (Richard H. Arland)
- 19) Online Schematics
by Gordon Gekko <gekko@nwlinc.com>
- 20) Tube Bank EXISTS!!
by davemed@ix.netcom.com
- 21) re: Tube bank
by dsibie@hvssa01.nl.lucnet.com
- 22) Pinouts on type 30 tubes?
by Art Winterbauer <art@comet.ucar.edu>
- 23) Re: Chassis concepts
by jeffd@coriolis.com (Jeff Duntemann)
- 24) Electric Radio Magazine
by jeffd@coriolis.com (Jeff Duntemann)

Date: Mon, 28 Oct 1996 12:22:06 -0500
From: larrys@fmis02.nsc.com (Larry Szendrei, NSME CMOS7 BEOL integration)
To: bry@mnsinc.com, glowbugs@theporch.com
Subject: Re: TUBE BANK(s) Idea!
Message-ID: <96102812220620@fmis02.nsc.com>

>My idea is that for the first year, you would take them on the basis
>that someone would have to donate two tubes for every ONE tube they
>withdrew. That would help build up the stocks etc.

Sure!!! I'll give you FOUR 6U8's for TWO type 50's! :-)

Seriously, tho, it IS a great idea.

73,
Larry

Larry Szendrei, ARS NE1S
larrys@fmis02.nsc.com
(not a list member, but read the archives religiously, and of the same ilk as
the glowbuggites!)

Date: Mon, 28 Oct 1996 13:30:39 -0800 (PST)
From: HaPpYgUy <jfw121@mail.usask.ca>
To: rdkeys@csemail.cropsci.ncsu.edu
Cc: Multiple recipients of list <glowbugs@theporch.com>
Subject: Re: Homebrew UX-201A regen grid leak value?
Message-ID: <ECS9610281339A@mail.usask.ca>

On Mon, 28 Oct 1996 09:25:04 -0600 (CST) rdkeys@csemail.cropsci.ncsu.edu wrote:

>...But, they
> should be run in general detector service at the LOWEST voltage possible
> consistent with good gain and smooth regeneration. On my set, that value
> can be anywhere from about 3.75 volts up to about 4.5 volts, usually best
> at right around 4.0 volts on the detector filament and first audio filament.

Looking at an old RCA tube manual, it rates the filament voltage of the UX-201a as 5 volts +/- 10%. This means that the tube should be operated within 4.5 to 5.5 volts.

This is true for these tungsten filaments that need to maintain a molecular layer of

thorium on the filament surface to operate correctly. If burned too brightly, the filament burns off this thorium too quickly, reducing emmissions. On the other hand, if it burns at too low of a temperature, the thorium builds up too rapidly on the

filament, reducing emmissions. It is true that the tube characteristics become extremely non-linear at reduced filament voltages resulting in apparently better detection but you will ruin these 70 year old tubes before their time! A fix to 'restore' these tubes to former emmissions is to 'flash' them, that is, to apply only

filament voltage of about 8 or so volts for a couple of minutes, and then 5 volts for

about 12 hours WITHOUT plate voltages of any kind, if used in the manner suggested by a fellow glowbuggite. This will restore the layer of thorium onto the filament surface surface again bringing up emmissions. Kinda hard on a tube too, because it could potentially burn out the filament once and for all, or at best reduces it's 10,000 hr. filament life substantially even tho' the tube is restored again.

I suggest a proper circuit for these triodes having the gridleak not across the grid

condenser, but from the grid to the filament pin with the POSITIVE filament voltage,

unless of course the grid circuit followed through the coil and tuning capacitor(s)

goes there anyway. By biasing these tubes in this manner, nonlinearity is introduced, which assists detection greatly. In this way, proper filament voltages are maintained, leading to increased tube life without flashing or weak emmissions.

Another option for those wanting to play with filament voltages is to get a REAL tungsten filament tube, such as the UV-201 or UX-201 (without the a). This one burns like a lightbulb at 5 watts (5 volts, 1 ampere). With this tube you can play around with the filament voltages without harmful effects up to the rated voltage. Some of the earliest regen sets were built for this tube and actually varied the filament voltage to gain some volume or regen control.

Another option is to use a soft detector tube designed especially for regenerative sets. These tubes have been designed gaseous for intentional nonlinearity at their rated voltages. A good example are the UV200/UX200/UV200a/UX200a. In the case of these detector tubes, the gridleak resistor must return to the NEGATIVE side of the filament, as in a conventional amplifier. the UV200a operates well from

between 22.5 to 45 volts. If connected in this correct manner, the 200a is a better

detector than a 201a , although it's input impedance is somewhat less than a 201a. Nothing that proper tuning can't fix tho' ..

In a nutshell: Use the right tube at the right voltages or substantially reduce the life of your 70 year old tubes.

Date: Mon, 28 Oct 1996 12:53:26 -0700
From: jeffd@coriolis.com (Jeff Duntemann)
To: glowbugs@theporch.com
Subject: Night Deposit at the All-Night Tube Bank?
Message-ID: <1.5.4.32.19961028124937.00f0c65c@ntserver.coriolis.com>

I actually have a box of tubes all packed up with nowhere to go, has been for several years now. To save space I pulled all the old 1X2-style rectifier tubes I had in stock from old TVs, plus other tubes out of TVs that seemed without amateur application. I hate to just dump them but only a few are NOS, the rest pulls, and it's unclear what to do with them. Free to a good home. I'll even pay the shipping. Anybody got any ideas?

--73-----Jeff Duntemann KG7JF
Scottsdale, Arizona

Date: Mon, 28 Oct 1996 15:04:44 -0500
From: Roy Morgan <morgan@speckle.ncsl.nist.gov>
To: glowbugs@theporch.com
Subject: Re: Lurker Needs Knight T-60 Ckt.

Message-ID: <9610282004.AA17564@speckle.ncsl.nist.gov>

At 05:55 PM 10/27/96 -0600, you wrote:

.. more recently,
>a solid state QRP transceiver (sorry for the 2 counts of blasphemy)...
>that produced a few thrills of it's own !!
>
>Now, in atonement, I'm starting to rebuild a Knight T-60 transmitter.

You are forgiven of all you sins.

In further atonement, you will keep the group posted as to your progress, accept all offers of parts, information, and advice, and put the thing on the air whenever you get around to it.

Go in peace.

(and whatever you do, Keep em glowing!)

-- Roy Morgan/Building 820, Room 562/Gaithersburg MD 20899
(National Institute of Standards and Technology, formerly NBS)
301-975-3254 Fax: 301-948-6213 morgan@speckle.ncsl.nist.gov --

Date: Mon, 28 Oct 1996 15:23:25 -0500
From: Roy Morgan <morgan@speckle.ncsl.nist.gov>
To: glowbugs@theporch.com
Subject: Re: emergency output transformer
Message-ID: <9610282023.AA17760@speckle.ncsl.nist.gov>

At 12:29 AM 10/27/96 -0500, you wrote:

>
>While trying to get some sound out of the old HRO I obtained today,
>I was in need of an audio output transformer.
..
>
>I ended up using a Stancor 24 watt line to voice coil unit.

Bob gets my vote for the glowbuggers spirit of the day award!

Keep em glowing!

-- Roy Morgan/Building 820, Room 562/Gaithersburg MD 20899

(National Institute of Standards and Technology, formerly NBS)
301-975-3254 Fax: 301-948-6213 morgan@speckle.ncsl.nist.gov --

Date: Mon, 28 Oct 1996 14:31:16 -0600
From: Guy Dragoo <gdrag@proedge.com>
To: "'Multiple recipients of list (Boatanchors)'"
Subject: Looking for hole punches
Message-ID: <01BBC4DC.B2678AC0@ft250.computek.net>

I am looking for a set of hole punches from 1/4 to 1 1/in for punching aluminum chassis.

Does anyone know of a vendor that carries these at a good price (Sescom, which seems to have a pretty good price, still runs over 150 bucks for all the flavors I need).

Any and all suggestions welcome.

Thanks and 73

Guy AC5HL

Date: Mon, 28 Oct 1996 15:43:06 -0500
From: Roy Morgan <morgan@speckle.ncsl.nist.gov>
To: glowbugs@theporch.com
Message-ID: <9610282043.AA18224@speckle.ncsl.nist.gov>

At 05:55 PM 10/27/96 -0600, you wrote:

. more recently,
>a solid state QRP transceiver (sorry for the 2 counts of blasphemy)...
>that produced a few thrills of it's own !!
>
>Now, in atonement, I'm starting to rebuild a Knight T-60 transmitter.

You are forgiven of all you sins.

In further atonement, you will keep the group posted as to your progress, accept all offers of parts, information, and advice, and put the thing on the air whenever you get around to it.

Go in peace.

(and whatever you do, Keep em glowing!)

-- Roy Morgan/Building 820, Room 562/Gaithersburg MD 20899
(National Institute of Standards and Technology, formerly NBS)
301-975-3254 Fax: 301-948-6213 morgan@speckle.ncsl.nist.gov --

Date: Mon, 28 Oct 1996 13:55:33 -0700
From: jeffd@coriolis.com (Jeff Duntemann)
To: glowbugs@theporch.com
Subject: Chassis concepts
Message-ID: <1.5.4.32.19961028135144.00f09cb0@ntserver.coriolis.com>

Hi gang--

I got down to some serious chassis work on my 6U8 superhet this weekend, and it occurred to me the general approach I use might be new to some people, tho I can hardly claim to have invented it. Wish I had better facilities to deliver images. With some luck I'll have my Junkbox Radio page up on the Web before the end of the year. One picture would make the whole thing as obvious as a popped electrolytic.

But the idea is this: I take a typical aluminum chassis such that one can buy from AES, along with a matching bottom plate, either boughten or hacked up from sheet stock. The chassis I invert, and use the bottom plate as the main platform for construction. That is, the tubes, the IF cans, and so on, are mounted to the bottom plate. This makes the receiver MUCH easier to wire, as I'm not "digging down into the well" so much, as I would be if I were wiring parts underneath a chassis in the traditional fashion.

But it gets better. I hack up a front panel out of more sheet stock, and bolt it to the chassis bottom plate with 1" X 1" aluminum angle like you see at the hardware superstores. For smaller assemblies I've used Erector Set angle girders, which are nickel-plated steel and punched with accurate holes every 1/2". You can sometimes pick up modern Erector Sets (not the ancient Gilbert sets, which are now collectibles) at garage sales for a few bucks, and the girders and brackets can be *very* useful in chassis work.

You now have a front panel bolted to the horizontal plate where the bottles and cans actually live. One more step: You remove the front face from the upside-down chassis. Three cuts with a saber saw did it for me, plus a little file work to even out the edges. Leave yourself at least 3/8" on each side to give you a flange into which to sink a couple of sheet metal screws. The front panel/horizontal plate assembly can now be bolted neatly to the upside-down chassis, giving a very rigid unit with an RF-tight compartment inside the chassis.

Virtually all the wiring can be done on the plate-and-panel assembly,

leaving nothing but the fuse holder, power cord, and S0-238 on the chassis itself. I put a 1 3/4" steel spacer on the back edge of the horizontal plate to act as a "foot" to keep the working assembly more-or-less horizontal when it's not bolted to the chassis box.

I got as far as mounting the Velvet Vernier mechanism and the RF amp tuning cap before I ran out of weekend. There aren't a lot of controls and I should be able to get the rest of them mounted this week.

My only regret on this project is that I didn't go to the next larger chassis size. But isn't that always the case?

--73--

--Jeff Duntemann KG7JF
Scottsdale, Arizona

Date: Mon, 28 Oct 1996 14:04:20 -0700
From: jeffd@coriolis.com (Jeff Duntemann)
To: gdrag@proedge.com
Cc: glowbugs@theporch.com
Subject: Re: Looking for hole punches
Message-ID: <1.5.4.32.19961028140032.00efe298@ntserver.coriolis.com>

At 02:32 PM 10/28/96 -0600, AC5HL wrote:

>I am looking for a set of hole punches from 1/4 to 1 1/in for punching aluminum chassis.

>Does anyone know of a vendor that carries these at a good price (Sescom, which seems to have a pretty good price, still runs over 150 bucks for all the flavors I need).

Punches are never cheap, and the square ones are purely hopeless. I see 1 1/8" round hole punches at flea markets regularly; they're apparently a standard electrical conduit size but work well for most octal tube sockets. Big hardware stores carry them new.

The only consolation in paying the going price is remembering how much work it was to drill a ring of 1/16" holes with a hand drill and then filing between the holes with a needle file to knock the slug out--THEN cleaning up the ragged hole with a rat tail or half-round file. Eeee-yukh!

Philmore makes (or made) a set of small circular metric punches that was only \$35. I bought it from Halted Specialties in Santa Clara about ten years ago, when I lived in Scotts Valley. The metric sizes were close

enough to English in many cases that I don't sweat the delta, and you couldn't beat the price. Don't know where one would find that set today.

You mentioned Sescom; I have a catalog from Project Pro that lists some gorgeous chassis and panels, ostensibly for tube audio but very appropriate for high-end RF work as well. Same sort of place. I keep wanting to call them and make sure they're still in business. You never know with glowbug-friendly vendors...

--73--

--JD--

Date: Mon, 28 Oct 1996 14:05:53 -0800
From: davemed@ix.netcom.com
To: glowbugs@theporch.com
Subject: Tube Bank
Message-ID: <1996112815347519169@ix.netcom.com>

I posted a message a few days ago about starting a tube bank but have not seen any responses. Perhaps I might elaborate a little as it might be a good idea. I ran a bank for Air Force MARS a while back.

These are some thoughts:

1. The Bank would be operated on a STRICTLY non profit basis. This means volunteer.
2. Operations would be restricted to the GLOBUGS and BOATANCHORS lists and would be for the benefit of those who use these lists.
3. The Bank would solicit donations as appropriate via these two lists.
4. Users would send requests to the bank stating the specific project the tubes would be used in.
5. Tubes would be supplied on an availability only basis from stock, the only charge being for packing and shipping. Another possibility is a two for one type of swap which may have some merit but would be difficult to administer.

The principal trap in this idea is that it is wide open for abuse. For example tubes being solicited from the Bank and then resold at a profit. However, as it is highly unlikely that The Bank would ever have such things as WD-11s or 6L6s or anything of serious value this is probably not a risk to be concerned with.

This is just an idea so kick it around Guys and Gals.
Dave KI6QE/7

Date: Mon, 28 Oct 1996 17:05:24 -0600
From: "Robert M. Bratcher Jr." <bratcher@worldnet.att.net>
To: glowbugs@theporch.com
Subject: Re: Tube Bank
Message-ID: <1.5.4.32.19961028230524.006a4508@postoffice.worldnet.att.net>

At 10:06 PM 10/28/96 +0000, you wrote:

>I posted a message a few days ago about starting a tube bank but have not
>seen any responses. Perhaps I might elaborate a little as it might be a good
>idea. I ran a bank for Air Force MARS a while back.
>These are some thoughts:

>The principal trap in this idea is that it is wide open for abuse. For
>example tubes being solicited from the Bank and then resold at a profit.
>However, as it is highly unlikely that The Bank would ever have such things
>as WD-11s or 6L6s or anything of serious value this is probably not a risk
>to be concerned with.

>

>This is just an idea so kick it around Guys and Gals.

>Dave KI6QE/7

I have a small stock of tubes myself including a nice pair of glass 6L6G's that I intend to keep along with a new looking pair of 807W's that I've had over 15 years. Generally when I buy a box of tubes at my local antique radio club or a swap meet, what I want from it gets pulled out then the box gets sold 2 or 3 months later at another meet for whatever I can get. Never made a profit on any of this. I've got plenty I'm not using for such a tube bank if we ever start one.

Or better yet, Why don't members just ask on the list for any tubes they need? Whoever has the tubes could send them direct! The "profit minded" members problem wouldn't be with us. That way we don't need a central bank. Everyone just asks (or trades) for what they need.

Robert M. Bratcher Jr.

E-mail to:

bratcher@worldnet.att.net

Record collector, 8mm, super 8, 16 and 35mm Film collector.

I like old radio's too.

Collins, Hallicrafters, National & Hammurland are my Favorites!

Date: Mon, 28 Oct 1996 15:30:34 -0800 (PST)
From: Gordon Gekko <gekko@nwlink.com>
To: glowbugs@theporch.com
Subject: Re: Tube Bank
Message-ID: <199610282330.PAA23011@montana.nwlink.com>

Robert M. Bratcher Jr." <bratcher@worldnet.att.net said:

>Or better yet, Why don't members just ask on the list for any tubes they
>need? Whoever has the tubes could send them direct! The "profit minded"
>members problem wouldn't be with us. That way we don't need a central bank.
>Everyone just asks (or trades) for what they need.
>

My vote is for the above method of administering the tube bank. This just seems the most logical approach - I have a box of tubes that I probably wouldn't want to send ALL of to the bank, but if a request comes down the pike to the group at large, I'd be more likely to dig into the box and send one off. to me, that just seems more logical. The bank in effect becomes all of us, and no one individual has the hassles and responsibilities of administering it. Looked at that way, the 'bank' already exists and has a HUGE inventory!

Just my 2 cents worth.

73's

Dave
aka gekko@nwlink.com

Date: Mon, 28 Oct 1996 22:14:07 PST
From: k7yha@juno.com (Richard H. Arland)
To: larrys@fmis02.nsc.com, boatanchors@theporch.com
Cc: glowbugs@theporch.com, Hallicrafters@juno.com
Subject: Re: TUBE BANK(s) Idea!
Message-ID: <19961028.225949.4407.0.k7yha@juno.com>

I have been going thru my stock of tubes here and have pulled out a dozen 12AX7, 12AU6, 12BE6, 6AU6 etc. Checked them all out and so far, all check good (using a Eico Mdl 657 transconductance dynamic tube checker).

I'll donate half (that is 6 each) of the above mentioned tubes along with others that I get a chance to check out to start things off. These are

all good tubes. I am after some 6C4s, 6BE6s, 6BA6s 6CB6s & 6BZ6s in particular to throw into the kitty. I have over 5 boxes of tubes left to go thru. Also found some 35W4s, 50C5s, 12AU7s, etc that came out of the "All American 5 tube receivers" and have multiple quantities of all of these tubes. Will split them with the tube bank.

The station whre I work part time has a big basement full of old tubes....some type 50s, 80s etc along with some metal 6SK7s etc. Will get permission to remove these, test same and donate them, as time permits.

I only wish I had the time to do the tube bank from here. I work two jobs in addition to writing for the radio hobby press, so time is nonexistant for me. (as my wife continually points out when she sees the two Heath transceivers laying on their respective backs waiting to be fixed, one VCR, two CB sets etc.)

73 rich K7YHA

Date: Mon, 28 Oct 1996 18:22:47 -0800
From: haynes@cats.ucsc.edu (Jim Haynes)
To: glowbugs@theporch.com
Subject: Tube bank
Message-ID: <199610290222.SAA00763@hobbies.UCSC.EDU>

I'm in support of the suggestion that you just keep your tubes and ask on the list when you need one. We need one addition - that if you can't keep your tubes then offer to send them to someone who can. They must never go to the dump, since there aren't any more being made.

Date: Mon, 28 Oct 1996 20:07:58 +0000
From: "Brian Carling" <bry@mnsinc.com>
To: Roy Morgan <morgan@speckle.ncsl.nist.gov>, glowbugs@theporch.com
Subject: Re: Lurker Needs Knight T-60 Ckt.
Message-ID: <199610290305.WAA07454@user2.mnsinc.com>

HEY! It's a reply from AF4K!

Roy (& the group):

This reads like it must be the ENTIRE FAQ for glowbugs!
At least, that could be the answer to all FAQs!

72.5 - Bry, G3XLQ

On 28 Oct 96, Roy Morgan wrote:

```
> At 05:55 PM 10/27/96 -0600, you wrote:
>
> .. more recently,
> >a solid state QRP transceiver ( sorry for the 2 counts of blasphemy
> >)... that produced a few thrills of it's own !!
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> >Now, in atonement, I'm starting to rebuild a Knight T-60
> >transmitter.
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> You are forgiven of all you sins.
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> In further atonement, you will keep the group posted as to your
> progress, accept all offers of parts, information, and advice, and
> put the thing on the air whenever you get around to it.
>
> Go in peace.
>
> (and whatever you do, Keep em glowing!)
>
> -- Roy Morgan/Building 820, Room 562/Gaithersburg MD 20899
> (National Institute of Standards and Technology, formerly NBS)
> 301-975-3254 Fax: 301-948-6213 morgan@speckle.ncsl.nist.gov --
>
>
73 from Radio AF4K / G3XLQ in Gaithersburg, MD USA
bry@mnsinc.com
*** See the great ham radio resources at:
http://www.mnsinc.com/bry/
```

Date: Mon, 28 Oct 1996 20:07:59 +0000
From: "Brian Carling" <bry@mnsinc.com>
To: glowbugs@theporch.com
Subject: Re: Tube bank
Message-ID: <199610290305.WAA07477@user2.mnsinc.com>

HEY! It's a reply from AF4K!
On 28 Oct 96, Jim Haynes wrote:

```
> I'm in support of the suggestion that you just keep your tubes and
> ask on the list when you need one. We need one addition - that if
> you can't keep your tubes then offer to send them to someone who
> can. They must never go to the dump, since there aren't any more
> being made.
```

GLAD you remembered that very important addendum!

Bry

73 from Radio AF4K / G3XLQ in Gaithersburg, MD USA

bry@mnsinc.com

*** See the great ham radio resources at:

<http://www.mnsinc.com/bry/>

Date: Mon, 28 Oct 1996 20:07:59 +0000

From: "Brian Carling" <bry@mnsinc.com>

To: glowbugs@theporch.com

Subject: Re: Tube Bank

Message-ID: <199610290305.WAA07472@user2.mnsinc.com>

HEY! It's a reply from AF4K!

On 28 Oct 96, Gordon Gekko wrote:

> Robert M. Bratcher Jr." <bratcher@worldnet.att.net said:

>

> >Or better yet, Why don't members just ask on the list for any tubes

> >they need? Whoever has the tubes could send them direct! The "profit

> >minded" members problem wouldn't be with us. That way we don't need

> >a central bank. Everyone just asks (or trades)for what they need.

> My vote is for the above method of administering the tube bank.

> This just seems the most logical approach - I have a box of tubes

> that I probably wouldn't want to send ALL of to the bank,

[snip!]

> Looked at that way, the 'bank' already exists and has a HUGE

> inventory!

Dave & Bob - it looks like your idea is gathering momentum. It makes a heck of a lot of sense. I remember when hams used to help each other like this a lot. At one time, you only had to get on a local 2m FM repeater and announce that you need a pair of 807s and by that evening you would have two of them for free. Times are changing but not entirely. The spirit of amateur radio lives on!

Bry

73 from Radio AF4K / G3XLQ in Gaithersburg, MD USA

bry@mnsinc.com

*** See the great ham radio resources at:

<http://www.mnsinc.com/bry/>

Date: Mon, 28 Oct 1996 22:45:59 PST
From: k7yha@juno.com (Richard H. Arland)
To: morgan@speckle.ncsl.nist.gov
Cc: glowbugs@theporch.com
Subject: Re: Fr. Roy
Message-ID: <19961028.225950.4407.8.k7yha@juno.com>

On Mon, 28 Oct 1996 14:45:19 -0600 (CST) Roy Morgan
<morgan@speckle.ncsl.nist.gov> writes:

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>At 05:55 PM 10/27/96 -0600, you wrote:
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>You are forgiven of all you sins.
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>In further atonement, you will keep the group posted as to your
>progress, accept all offers of parts, information, and advice, and put
the thing
>on the air whenever you get around to it.
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>Go in peace.
>
>(and whatever you do, Keep em glowing!)

Thank you Father Roy, for your words of encouragement and absolution!

73 rich K7YHA

Date: Mon, 28 Oct 1996 20:38:30 -0800 (PST)
From: Gordon Gekko <gekko@nwlink.com>
To: glowbugs@theporch.com
Subject: Online Schematics
Message-ID: <199610290438.UAA15158@montana.nwlink.com>

Ok! We're ready to roll here. I have just finished going through the 8 or so schematics I was sent last week and the week before for 1 tube and 2 tube transmitters. Unfortunately, not all of them will scan with enough resolution

to be useable in this format.

Here is what I have available to start (only 4 - more to come!)

Current Catalog:

File Name:	Description:
1tpi.jpg	1 tube (6V6) transmitter with PI tank output circuit. Nice circuit. I built this one myself last weekend.
2t35.jpg	2 tube transmitter - 6L6 final - 35 watts plate input
2tpi.jpg	2 tube transmitter - similar to above but with PI tank output circuit
regen1.jpg	2 stage regen (detector plus audio) 1939 vintage

The Goal:

To create a database of schematics of tube type gear from the last 75 years so that future homebrewers won't have to have a library of 1958 QST's to find tube-based projects. This catalog list will be updated approximately once per week to the group, provided there is new material to post. Maybe someday along the way, I'll put the stuff on my webpage for FTP download.

To request:

Simply email me at gekko@nwlink.com and mention 'request schematic' in subject line and I will send it off within a day so, depending on my schedule. Order as many as you like within reason, but just make sure you give me a valid email address. Nothing is more bothersome than 10 megabytes of jpeg's being bounced over and over due to a bum email address!

Submissions:

I am ACTIVELY PROMOTING submission of printed schematics to be scanned and made available to everyone in this group. Eventually, I will amass a database of tube types that may be searched to find uses for oddball tubes you may have. But it takes submissions to make it work. Here are the 'rules' for submitting schematics:

MUST be full page (8 1/2 x 11) or very close to it. I have tried and tried with smaller images and I just can't hold the detail when I convert to a compressed format, such as zip or .jpg. So please - send a full size copy of your diagram.

Include entire article if desired. I will only scan the parts list and schematic itself, but I will file the rest if some one has questions.

PLEASE send drawings of circuits you have designed yourself! Some of the best gizmos ever built didn't appear in QST.

If you have a scanner, by all means scan the image and send it to me to archive. Use .tiff or .bmp as the native scan format, using somewhere around 160 dpi resolution. Much higher and the file becomes way too large. Much less and the finer details drop out. Then convert the image to .jpg format to send. Be sure to 'proof' your image before sending to make sure all of the detail has been kept.

Mail submissions to:

Dave Ellison
1115 Regents Blvd. #16
Tacoma, WA 98466

email: gekko@nwlink.com

I am currently going through my old schematics to find suitable material to scan, so even if no one sends anything, I'll be putting more up to download.

I've had alot of positive response to this idea, so start sending schematics and watch for them to appear in The List.

Dave
gekko@nwlink.com

Date: Mon, 28 Oct 1996 21:17:41 -0800
From: davemed@ix.netcom.com
To: glowbugs@theporch.com
Cc: jackg@one.net
Subject: Tube Bank EXISTS!!
Message-ID: <19961128221533541@ix.netcom.com>

Well Guys and Gals thanks to Jack G we can stop this thread. There is an existing tube bank which operates in exactly the way I had suggested. Was announced in September QST. Only drawback is that it does not seem to be on the net but rather on an LL BBS in San Diego (619-279-3921). I just checked into that BBS and it is right there with a HUGE inventory. As a newcomer to the BBS I was not allowed to download but this should be rectified when they check my credentials. The bank is operated by:

R.L.Wentworth
4804 Huron Ave
San Diego CA 92117-6211

Those of you out there who are proposing to either junk your surplus or to donate to a worthy cause you might consider this one. The guy is a Ham (AF6V) and seems to be encouraged by the ARRL as the list is also on the ARRL LL BBS but a little more difficult to find.

I will check in again tomorrow night and download the list.

I have never had much success with the idea of just asking for what I need although I must admit I have not tried this recently. The central bank idea is much better as you can find out beforehand if it has what you need. This needs a pretty dedicated person to operate it of course.

73 de Dave KI6QE/7

Date: Tue, 29 Oct 96 09:39:11 +0100
From: dsibie@hvssa01.nl.lucent.com
To: glowbugs@theporch.com
Subject: re: Tube bank
Message-ID: <9610290839.AA18733@hvssa01.nl.lucent.com>

Hello GBers,

> > Robert M. Bratcher Jr." <bratcher@worldnet.att.net said:
> >
> > >Or better yet, Why don't members just ask on the list for any tubes
> > >they need? Whoever has the tubes could send them direct! The "profit
> > >minded" members problem wouldn't be with us. That way we don't need
> > >a central bank. Everyone just asks (or trades)for what they need.
>
> > My vote is for the above method of administering the tube bank.
> > This just seems the most logical approach - I have a box of tubes
> > that I probably wouldn't want to send ALL of to the bank,
> [snip!]
> > Looked at that way, the 'bank' already exists and has a HUGE
> > inventory!
>
I completely agree with Robert and I would like to extend the existence of this distributed bank to The Netherlands. I am willing to offer any of my tubes to any fellow amateur who needs them. I have a rather small collection of EC..., EF..., EL..., PC..., PF..., PL... and all kinds of combinations of these. They are gathering dust, are a regular piece of conversation when the subject of "cleaning up the shack" arises.

72 de Dirk, PA3GNR

Date: Tue, 29 Oct 1996 08:05:15 -0700 (MST)
From: Art Winterbauer <art@comet.ucar.edu>
To: glowbugs <glowbugs@theporch.com>
Subject: Pinouts on type 30 tubes?
Message-ID: <Pine.SUN.3.95.961029080131.19946F-1000000@spike>

Does anyone know the pinouts on a type 30 tube? The bottom of the tube looks like this:

0 0

o o

The big Os show continuity with an ohm-meter, so I figured that's the directly heated cathode. But of the lower pins, which is the grid and which the plate?

Incidentally, the big Os are also physically bigger diameter pins than the other two.

I'll shortly be trying to build the Globetrotter from an old Dave Ingram article in CQ and came across a good deal on these type 30 tubes.

--Art WA50ES

Date: Tue, 29 Oct 1996 08:35:34 -0700
From: jeffd@coriolis.com (Jeff Duntemann)
To: bry@mnsinc.com
Cc: glowbugs@theporch.com
Subject: Re: Chassis concepts
Message-ID: <1.5.4.32.19961029083151.00f0bcc4@ntserver.coriolis.com>

At 08:07 PM 10/28/96 +0000, you wrote:

```
>HEY! It's a reply from AF4K!
```

```
>Great article on your construction method.
```

>Do you mount the tubes ghorizontally on sub-panel/brackets inside the
>chassis? Sounds like they do not go through the bottom plate nor
>through the chassis main panel.

No, the tubes go through the horizontal plate (it's not the "bottom plate" because the chassis is used upside-down) in the usual fashion. The working assembly looks like this, from a side view, with one "tube" shown:

Diagram illustrating a front panel layout. A dashed line is shown on the left, and a vertical line is shown on the right. The text "<-- Front panel" is positioned to the right of the vertical line.

I'll have some photos on my Web site as soon as possible.

- -73- -

--Jeff Duntemann KG7JF
Scottsdale, Arizona

Date: Tue, 29 Oct 1996 08:44:45 -0700
From: jeffd@coriolis.com (Jeff Duntemann)
To: glowbugs@theporch.com
Subject: Electric Radio Magazine
Message-ID: <1.5.4.32.19961029084102.00f0a18c@ntserver.coriolis.com>

Hi gang--

I'm a little surprised that I never hear anything about Barry Wiseman's Electric Radio Magazine here. He's published a number of original tube designs for homebrewing in the past two years, and told me he'd publish more if he had them. The magazine has published a number of Dave Ishmael designs, and provides practical technical information for restoring and operating classis HF tube gear, primarily CW and AM. About a third of the magazine carries subscriber ads, all for vintage gear and parts. Much of my collection of vintage gear has come through answering those ads.

In short, one of the best-kept secrets of the ham radio world.

ELECTRIC RADIO MAGAZINE

Barry Wiseman N6CSW
14643 County Road G
Cortez CO 81321-9575
970-564-9185
er@frontier.net

\$28 year (12 issues) second class
\$38 first class

--73--

--Jeff Duntemann KG7JF
Scottsdale, Arizona

End of GLOWBUGS Digest 335
